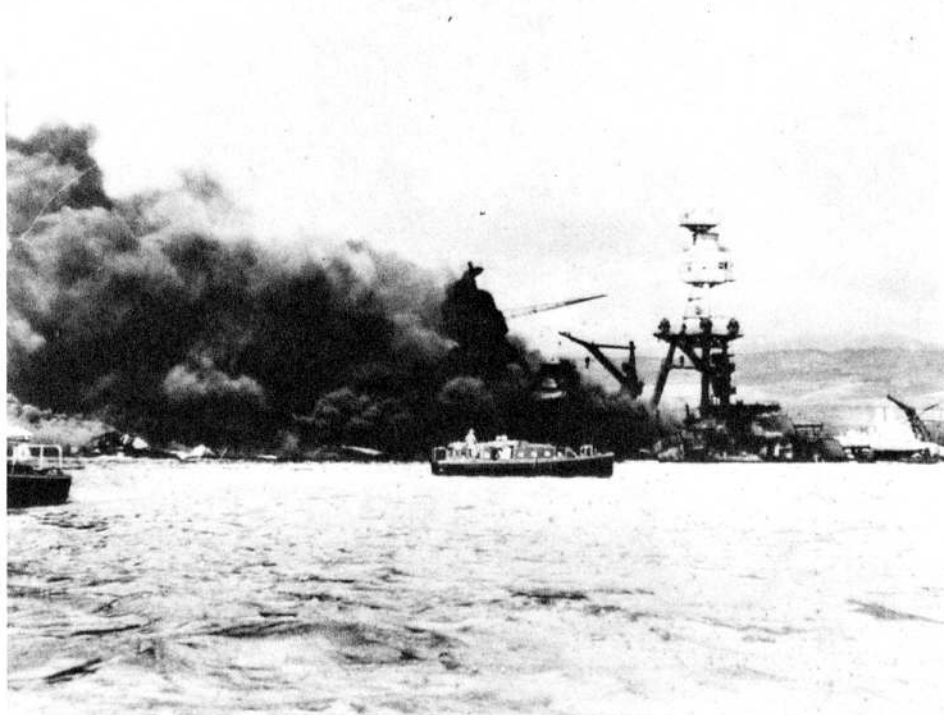


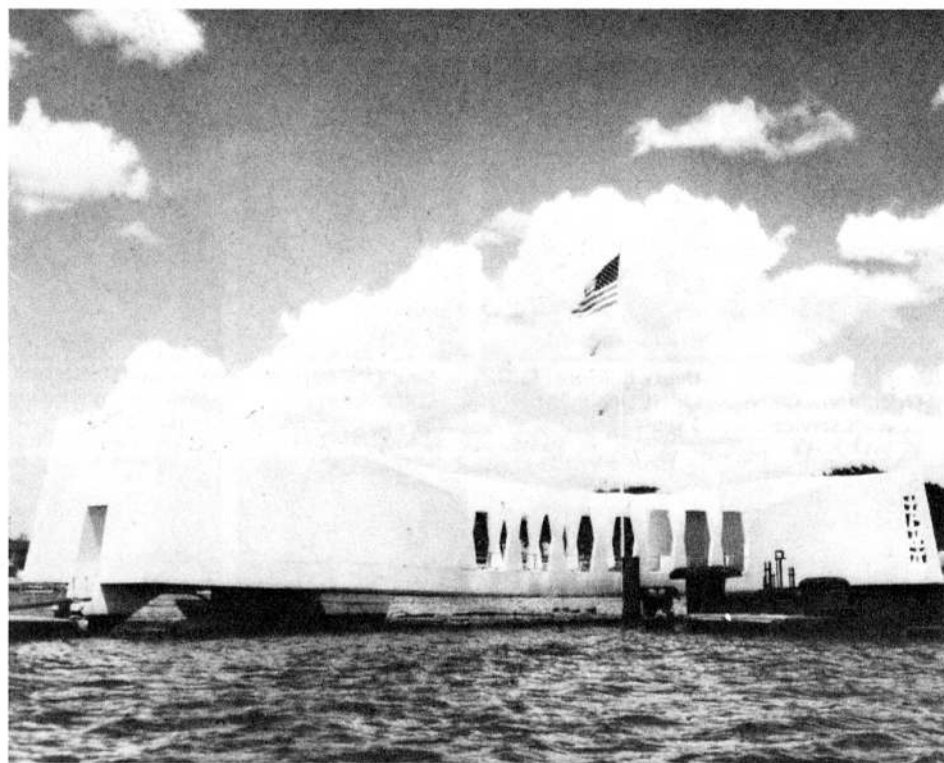
'Day of Infamy' stirs vivid employees' memories



'Remember Pearl Harbor'?

*Let's remember Pearl Harbor
As we go to meet the foe;
Let's remember Pearl Harbor
As we did the Alamo.
We will always remember
Those who died for Liberty.
Let's remember Pearl Harbor
And go on to victory!*

—written two days
after the event



THEN AND NOW—The USS Battleship Arizona sinks in flames at Pearl Harbor, December 7, 1941. In the lower photograph the memorial to the American dead at Pearl is seen.
(Photo: Courtesy Knoxville News-Sentinel)

Even though more than 40 percent of Nuclear Division employees were not born 37 years ago today, there are some vivid memories around to stir up a conversational lag. Important days become seared into the brain where indelible memories haunt one's recall. Pearl Harbor Day, 1941, can stir up a lively topic if one is old enough to recall the events of the momentous day.

"I was in a movie watching 'Suspicion' when the public address system requested all military personnel to report back to their bases, so I knew something had happened. Moments later the movie was interrupted to bring us the news that Hawaii had been struck by an air raid and that we were in a state of war."

"I was on a picnic and did not hear the news until late that afternoon. Remember what we had for lunch, though, cold roast beef sandwiches and fruit," was another comment.

The following comments were gleaned at random from the four plants:

Jim Murray, ORGDP Maintenance Engineering, was working for a power company at Bryson City, N.C., building dams when he first heard the news on radio. "They broke in with a special news program. I was shocked more than anything." He says he believes he may have felt some hatred toward the Japanese, but that time has dimmed the feelings of 37 years ago.

Annie Estes, secretary in Quality Assurance at ORGDP, lived in Pineville, Ky., at the time. On December 7, she and several friends went to a local confectionary shop which was the "in" gathering place. Estes remembers hearing the news at the shop and then going home where her mother and uncles were listening to the news on the radio. . . . She said, "I knew we would be in a war and that my two brothers and an uncle would be in the service." She began asking her mother several questions about war; in particular, she wanted to know about the "war to end all wars," WW I.

Ervin Halterman of ORGDP Photography, grew up in Franklin, W. Va., and was doing farmwork at the time. He remembers the day because it was also his father's birthday. But he also says "In those days, it took a little while for news to get around. It wasn't like it is today." Halterman first learned of the attack from neighbors who stopped by their house later that Sunday afternoon. He said it was an awful thing to happen and was wondering about his future. He was 22 years old at the time. The wondering stopped two years later when he got his "papers" to report for service.

Guard **J. O. Dobson**, Paducah, was not as optimistic as his fellow Paducahan Keith Bryant. "Shock," was his first reaction, then "we were being hit from both sides of the world, Japan on one end and Germany on the other." I thought to myself, "We have really had it now."

Pearl Harbor ended a musical career for **Betty Jeffers**, Industrial Relations, and her husband, Mack. "Gasoline and tires were getting scarce in late '41, and we knew we could not stay on the road much longer. As a matter of fact, we were driving to an engagement when the news came over the radio. That did it. And, too, it was only a matter of time before Mack had to go in service anyway," Jeffers said in describing that weird feeling when news of the attack came. "It all seems unreal now," she said.

George Warlick, ORNL Finance and Materials Division, remembers that on that fateful day he, like General Marshall, spent the afternoon playing golf. "Later that evening, while singing in a Christmas concert, I learned of the attack—the minister in his message made such a point of the 'dastardly deed' that I asked whoever was sitting by me what was going on."

Upon further reflection he added, "An interesting and little known consequence of the attack was that the Rose Bowl game between Duke and Oregon State was canceled for fear of a possible invasion and then rescheduled to be played in Duke Stadium. That was the only time the Rose Bowl was played outside Pasadena.

Ted Koprowski, ORGDP Engineering, remembers on this particular Sunday he got into a discussion with some fellow Ohio State students and "began explaining why the Japanese would never attack any part of the United States, including Hawaii." The discussion ended, and within five minutes, Koprowski heard the news on the radio. "It was just an impossible thing to have happened," says Koprowski.

Moultrie, Ga., was the locale for **Robert T. Cantrell**, retirement counselor in Y-12 Employee Relations. "I was not really shocked, but a little surprised, for I had just finished reading about the Japanese diplomats in Washington negotiating for peace. It's funny, you can even remember what you had for breakfast that day."

(Please see page 5)

Readership survey shows interesting likes, dislikes

What do employees like most about **Nuclear Division News**? What don't they like? And what are some improvements that could be made in the paper?

The answers to these and many more questions are contained in the results of a readership survey conducted by the Communications Research Center of the University of Tennessee.

Earlier this year, the Center developed and mailed questionnaires to approximately 1300 Nuclear Division employees. The names were chosen from a listing of every 12th employee on the Division payroll. Approximately 850 returns were received, which the Center considers a "good" to "very good" response.

There were many reasons for the survey. The editors wanted to find out whether the publication was of interest to employees, and what could be done to make it more interesting. In addition, the editors were anxious to learn of the publication's shortcomings.

Overall, the survey results indicate that the newspaper is well accepted by employees. However, there are many areas where employees feel improvement can be made.

Question Box popular

Most employees found more to like than dislike about the publication. The most popular item in the newspaper is the "Question Box." Almost 60 percent of employees gave this feature a high readership mark. Curiously enough, employees leveled sharp criticism at the answers to the Question Box, indicating in some instances the answers were vague or lacked credibility.

On the other end of the spectrum, employees at all facilities indicated that there was not enough news from their facility in comparison to the others. Coupled with this was the view that many employees are not too interested in what goes on at Nuclear Division facilities other than their own.

Answers to some basic questions indicated that the newspaper reaches

nearly all employees at their homes within about a week of publication; that it is "read or looked into" by 95 percent of employees; and that in 65 percent of the households, two or more members of the family read the newspaper. One percent of employees charged the paper with management-biased news.

Second to "Question Box" in popularity is "Dr. Lincoln." Highest interest in this column was expressed by Y-12 employees (59.6 percent), while Paducah had the lowest (41.2 percent).

Self-improvement articles

Employees reported that they were least satisfied with the newspaper helping them to do their job better. In addition, many employees indicated dissatisfaction with the newspaper's attention to people in their own job classification.

Almost 50 percent of the employees surveyed indicated that they would like to see some articles dealing with self-improvement in performing on the job.

For purposes of the survey, **Nuclear Division News** was compared with readership of other publications, including **Family Safety** and **Union Carbide World**. On the basis of responses, **Family Safety** is the most popular, followed by **Nuclear Division News**. Almost 55 percent of employees would give high marks to more stories dealing with safety.

Energy conservation features scored very high at all four facilities, and more than 50 percent of the employees surveyed want additional items dealing with this subject.

Another subject on which readers would like to see more emphasis is



SURVEY READERSHIP—Ellen Bennett, a graduate assistant, and Jack B. Haskins, director of the College of Communications Research Center at the University of Tennessee, study results of a readership survey they recently completed on the *Nuclear Division News*.

human interest stories. However, articles dealing with technical subjects ranked relatively low. High interest in more technical articles was indicated by about one in four of the employees surveyed. At the same time, there is no great interest in employee sports stories. About 27 percent of the respondents considered this a high interest item.

Other items receiving high readership grades were: inquiring reporter stories; different drummer

features; and helpful home hints. Among those ranking low were: news of retirees; and news about other facilities, not only in the Nuclear Division but throughout the Corporation.

Oddly enough, a large number of readers did not know how to contact their facility newspaper representative. The names and telephone numbers for contacts at each plant are printed in every issue of the newspaper.

Enjoying the leisure life. . .



Charles A. Reeves
ORGDP Maintenance
34 years service



Charles E. Rose
ORGDP Operations
33 years service



Leonard J. Shersky
Engineering Technology
ORNL
25 years service



Edward G. Struxness
ORNL, Environmental
Sciences
34 years service



Henry E. Teasley
Operations, ORNL
32 years service



Henry B. Ruley, M.D.
ORNL Health
3 years service



Samuel E. Beall Jr.
ORNL Energy
34 years service



George W. Peterson
Material Engineering
Y-12
33 years service



Raymond C. Whitehead
Y-12 Buildings, Grounds
and Maintenance Shops
29 years service



Claude W. Workman
Operations, ORNL
33 years service



Norville L. Tittsworth
ORGDP Maintenance
34 years service



Robert E. Toucey
Instrumentation and
Controls, ORNL
34 years service



Wallace L. Van Hoozier
Plant and Equipment
ORNL
29 years service



Eddie G. McCoy
Building Services
Y-12
34 years service



Walter H. Sherrod
Y-12 Materials Shop
30 years service



George T. Wellborn
Y-12 Process
Maintenance
25 years service

anniversaries

Y-12 PLANT

25 YEARS

Walter M. Williams, Elijah G. Smith, David C. Weaver, Don McMurray, Emogene B. Griffin, Lendon Daugherty, Dean Justice, Carl R. Hudson, Mark S. Grimm Jr., Vernon J. Harber, Stanley L. Jamruz and Eugene F. Dalton.

20 YEARS

Yotsey R. Lunsford, Charles E. Hatmaker, Walter D. Shultz, Milton H. Vineyard Jr. and Coy F. Wallace.

ORNL

30 YEARS

John J. Tudor, Engineering Technology; Roger B. Quincy Jr., Analytical Chemistry; Elliott D. Carroll, Plant and Equipment; Mary Rose Ford, Health and Safety Research; and Herbert G. Linginfelter, Instrumentation and Controls.

25 YEARS

Kenneth L. Elkins.

20 YEARS

William L. Cox Jr., Alonzo R. Huffstetler, Orlin J. Bernard, DeForrest C. Whitehead, Ronald S. Graves and Paul E. Murphy.

ORGRP

20 YEARS

Marjorie H. Burdette.

35 YEARS



Goins



Lovejoy



Ragan



Simcox

Max W. Goins, Y-12 Mechanical Inspection, came to Y-12 December 2, 1943. He lives at Route 20, Knoxville.

Charles F. Lovejoy, ORGRP Maintenance Division, joined the SAM Laboratories in New York on December 6, 1943. He lives at 113 Underwood Road, Oak Ridge.

Willoughby Ragan Jr., design engineer in ORNL's Instrumentation and Controls Division, began his company service on December 14, 1943. He lives at 1201 Dogwood Drive, Kingston.

Clifford M. Simcox, Y-12 Process Maintenance, joined the Manhattan Project November 9, 1943. He lives at Route 5, Harriman.

wanted...

ORNL

FIFTH CAR POOL MEMBER from the vicinity of Landmark Subdivision, Country Club Apartments, Canby Hills or Gulf Park, Knoxville, to East or West Portal, 8:15-4:45. J. W. Sims, plant extension 3-1486, home phone 693-8829.

ONE or TWO CAR POOL MEMBERS from Powell, vicinity of Irwin Road and Beaver Creek Drive, to East Portal, 8-4:30. Eugene Lamb, plant phone 3-6483, home phone 947-6037.

CAR POOL MEMBERS from Lovell Heights area, Concord, to North or West Portal, 8-4:30. Jerry Dixon, plant phone 3-1108, home phone 966-1232.

RIDE from vicinity of Hunter Circle, Hillside or Highland Avenues, Oak Ridge, to any portal, 8-4:30. Kun Joong Yoo or Tom Hamrick, plant phone 3-1188.

JOIN CAR POOL from Walker Springs Road in Knoxville, 8-4:30. Susan Rowland, plant phone 3-1872, home phone 690-3204.

ORGRP

RIDE or JOIN CAR POOL from North Knoxville area, to Townsite, days, Donna Stephens, plant phone 3-4374, home phone 524-0845.

RIDE from Bearden area of West Knoxville, to Portal 2, days. Sarah "Neal" Horne, plant phone 3-3800, home phone 584-0889.

Gerstner named new director of Information Center Complex

Helga B. Gerstner has been appointed the new director of the ORNL Information Center Complex (ICC), announced G. Daniel Robbins, director of ORNL's Information Division. She succeeds Gerald Ulrikson, who directed the ICC for the past three years.

The ICC consists of 10 discipline-oriented information centers which provide information support services to DOE and other government agencies, as well as to research and development programs within ORNL. With an annual operating budget of \$3.5 million and approximately 120 employees, the Complex specializes in information concerning biomedical and environmental activities, and energy-related topics such as coal conversion.

A native of the Island of Ruegen in Germany, Gerstner received her BS degree in biological and medical sciences at the University of Leipzig, followed by studies at the Leipzig Medical School. She came to the United States in 1950 and to Oak Ridge in 1960.

For five years she worked in the life sciences section of DOE's Technical Information Center, and in 1972 she joined ORNL's Information Division working in the Toxicology



Helga B. Gerstner

Information Response Center. In 1974 she became director of the Center.

She is a member of the editorial board of the "Drug and Chemical Toxicology" journal, and serves as a member of the Toxicology Information Subcommittee to the Committee to Coordinate Toxicology and Related Programs for the Department of Health, Education, and Welfare.

Gerstner and her husband, Herbert, an ORNL consultant, live at 137 Cumberland View Drive, Oak Ridge.

division death...

Kay B. Condra, Y-12 Development Division, died November 11 in a Knoxville hospital. A native of Oliver Springs, she graduated from the University of Tennessee, after attending Hiwassee College. Before coming to Y-12 in 1976, Mrs. Condra graduated from Y-12's Training and Technology program, and taught school in Anderson County. She previously had worked part-time at ORNL and ORGRP, and served on DOE's American Indian Advisory Committee and on Y-12's Affirmative Action group.

Survivors include her husband, Phillip A.; and son, Phillip B.; 113 East



Mrs. Condra

Irving Lane, Oak Ridge; parents, Mr. and Mrs. Edward Bowling; brothers, Tony and Charles; and sister, Pamela Robbins.

Funeral services were held at the Weatherford Chapel, Oak Ridge, with burial in Oak Ridge Memorial Park.

NUCLEAR DIVISION NEWS

UNION CARBIDE CORPORATION
NUCLEAR DIVISION
Post Office Box Y
Oak Ridge, Tenn. 37830

EDITOR (Y-12)

James A. Young, Ext. 3-7100

ASSOCIATE EDITOR (ORNL)

Karen L. Cromer, Ext. 3-6266

ORGRP

Ira N. Kaplan, Ext. 3-9724

PADUCAH

Darlene Mazzone, Bell 208



Member,
INTERNATIONAL
ASSOCIATION
OF BUSINESS
COMMUNICATORS

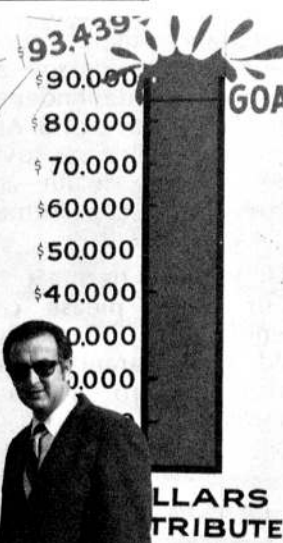
Thanks to you dreams come true



78 Un



PADUCAH PLAUDITS—Jim Vanther, left, a representative of the Mayfield-Graves County United Way Committee presents an appreciation plaque to J. O. Dobson, United Plant Guard Workers of America local president and resident of Graves County. Paducah employees pledged \$7,235 to the Mayfield-Graves County United Way agencies. Also present was Andrew Stratton, right, of the Graves County United Way Committee.



question box. . .

If you have questions on company policy, write the editor, **Nuclear Division News** (or telephone your question in, either to the editor, or to your plant contact). Space limitations may require some editing, but pertinent subject matter will not be omitted. Your name will not be used, and you will be given a personal answer if you so desire.

Increased insurance rate

QUESTION: I was aware that our supplemental life insurance rate increased at the age of 55, but I was not aware of the amount of increase. Should those approaching age 55 be forewarned so that they could cancel if they wish?

ANSWER: There is a significant increase in the cost of supplemental life insurance at age 55. The cost is shown in the Group Life Insurance benefit plans booklet. Most of our employees are aware that there is a change at age 55. If they should forget this, then the best notification is the deduction from their paycheck. If anyone wishes to cancel his/her supplemental coverage, he/she may do so by completing a cancellation form at the Benefit Plans Office.

Blue Cross claims

QUESTION: I recently submitted a claim to Blue Cross for payment for physician's services. They sent back a form saying I had failed to check the block that showed I had no military dependents. Can something be done to stop these delaying tactics in paying our claims? The claim was for my coverage and had nothing to do with dependency.

ANSWER: To ensure prompt handling of claims all sections of the claim form must be completed. Based on your description of the form sent to you it appears you did not indicate on your claim whether or not you had other coverage. Instructions on the claim form state, "If the patient has no other coverage, the word 'NONE' should be entered. If this area is left blank there will be a delay in our payment since we must obtain a response from the subscriber." The insurance company must receive this information before they can process your claim in order to determine if there is a coordination of benefits.

The follow-up form which is sent to determine if there is coordination of benefits does include a box to be checked for dependents or retired members of the U. S. Armed Forces who are eligible for coverage under the Civilian Health and Medical Program of Uniformed Services (CHAMPUS).

If you are having problems with your claims please contact your Benefit Plans Office. The Company and the insurance companies are interested in improving claims payment.

Stale vending foods

QUESTION: Almost two years ago, the **Nuclear Division News** answered a question on stale foods in the vending machines throughout the Y-12 Plant. Phone calls by individuals, as suggested in the answer, have availed nothing. Milk, pastry, etc., continue to be outdated. Can surprise inspections be made occasionally by cafeteria employees to keep the vendor more alert?

ANSWER: Examination of the call-in records at the Y-12 cafeteria and Industrial Vendors' office covering the last six months (April - October) indicate that several calls were made to report problems in the canned drink machine in building 9201-4. The frequency of the problems in that case was excessive. In the future, machines requiring excessive repairs will be replaced. As a matter of fact, between now and the end of January 1979, the vending equipment at all locations will be replaced with brand new machines. The new machines will offer a broader range of merchandise and should eliminate many trouble calls.

Our records show that during the six-month period there was only one complaint called in concerning out-of-date merchandise (potato chips). While the cafeteria managers along with supervisors from Industrial Vendors do make unscheduled inspections throughout the plants, the best line of communication, if there are problems, are your calls. Calls reporting problems result in a serviceman checking and repairing faulty machines or a supervisor examining the merchandise being vended.

President's guidelines

QUESTION: The guards were granted an eight percent increase on November 16, 1978. How could this be done in view of President Carter's request that wage increases be voluntarily limited to seven percent?

ANSWER: The regulations in connection with President Carter's request recognize "tandem" relationships. Where a smaller unit has traditionally received increases based on a larger unit's settlement, the tandem relationship can be recognized if the larger unit's settlement was prior to October 24, 1978.

Questions answered on new phone system



With the new Electronic Switching System (ESS) scheduled to become operational at 1 a.m. on December 30, a number of questions have been raised about the new telephone system. The following are some of the most common questions. Answers to other questions can be found when you receive your new telephone directory.

• **QUESTION**—What calls will continue to be placed through the attendants/operators?

ANSWER—The attendants will not place calls because the user can dial any number direct. The attendants are available for information, assistance and arranging conference calls only.

• **QUESTION**—What is my "FTS" number?

ANSWER—Your FTS number in Oak Ridge is either 624-xxxx or 626-xxxx. The last five digits correspond to your official number 574-xxxx, 576-xxxx.

• **QUESTION**—What if I experience trouble with my telephone?

ANSWER—Dial Telephone Repair at 5-482-2419.

• **QUESTION**—May I use my new telephone prior to the switch-over if it is working?

ANSWER—Yes, but the new telephones, if they are working, will only be able to contact other new telephones that also may be working. In any event, such calls will be limited within the official system. All other calls must still be made on the old telephones. Any trouble with new telephones should be reported after the switch-over since the trouble may clear up with the official transition.

• **QUESTION**—Will the Paducah telephone system be upgraded?

ANSWER—The telephone system in use at the Paducah Plant is much newer than the Oak Ridge system and is considered adequate at this time to serve plant needs. However, studies are being made and it is likely that the Paducah system will be upgraded sometime within the next 5-10 years.

• **QUESTION**—How are in-coming calls handled?

ANSWER—In-coming calls will be dialed direct to the called station. Therefore, you should notify all callers of your new seven-digit telephone number.

• **QUESTION**—What must I do if I can't find a name and telephone number in the official directory?

ANSWER—Dial 6-5454 for Information.

• **QUESTION**—How do I dial a station within the official Oak Ridge government system?

ANSWER—By dialing only the last five digits of the listed seven-digit number. For example, if the listed number is 576-9854, dial 6-9854.

• **QUESTION**—How do I place an "FTS" call?

ANSWER—By dialing "8" for access, waiting for a dial tone and then dialing the seven-digit FTS number.

• **QUESTION**—How do I obtain telecommunications service and equipment such as telephones, data communication devices, video systems, etc.?

ANSWER—Contact your Plant Installation Telecommunications Coordinator.

• **QUESTION**—Will you please explain the Emergency "911" procedure?

ANSWER—At any plant, dial "911" and you will be connected to emergency control facilities. At Townsite, you first must dial the number "5" and then "911," and you will be connected to city emergency facilities.

Modifications for handicapped



Traveling for handicapped persons at ORNL wasn't always easy. But, modifications such as this wheel chair ramp (right) at Fifth and Central Avenues, have helped alleviate the situation. The way is much easier for job applicants as they travel from the employment office to the cafeteria.

Enjoying the leisure life. . .

'Confirmed senior citizens, but still young in heart,' Coggins



BALMY WEATHER—Mary Lou and Bill Coggins enjoy the sea breezes near their apartment motel at Nokomis, Fla. 'Retirement for us has been one great, lengthy vacation,' Coggins writes.

(Editor's Note: Our request for information on some of our retirees brought this interesting note from William L. Coggins, retired from Y-12's Maintenance Division. His narrative speaks happily for itself.)

"I guess you might say that this letter comes under the heading of a new career. I was in Y-12 for 28 years, and Mary Lou, my wife, worked there in the early years and later at ORGDP. We are resident managers of an apartment motel on the Gulf of Mexico between Sarasota and Ft. Myers. There is enough work to keep us active, and enough leisure time to satisfy our favorite pastime of beach-combing.

"We 'keep in touch' with home by receiving the **Nuclear Division News** and an Oak Ridge newspaper. All during the year many old friends and former fellow workers stop by just to say hello. Some of the people who have recently stopped by for a 'pop visit' are Don Hill, Spence Wallace, Roy Chilcoate, Cliff and Thelma Knisely, James and Evelyn Moorehead, and Emmet Moore. Others include Charles Ryan and his wife, Polly; Calvin Scarbrough and his wife, Virginia (she's in Y-12's Medical Department); Ed Pipes, Roy Helton and Frank Thurman. All are, or have been, Y-12ers.

"Mary Lou was active in the Arts and Crafts section of the Oak Ridge

Women's Club, and she and the women guests work together on various shell projects throughout the year. My hobby (if you can call it that) is keeping the records, answering correspondence, performing the maintenance duties required, etc. After all the years of supervising others, it is indeed a pleasure to do some of the work myself.

"We start our eighth year in February and can honestly say we have never regretted our move. We stay here. We don't even visit our sons. Larry (W. L. Jr.), a machining supervisor in Y-12, and Allen, a program administrator for natural areas in the Tennessee State Parks System, living in Nashville, come to visit us, of course. They are both married and spend part of their vacations here.

"We are now confirmed senior citizens but young in heart and hope we will continue to have good health and live to enjoy more years of happy, contented 'retirement.' To sum it all up: Retirement for us has been one great, lengthy vacation."

'Day of Infamy' memories

(Continued from page 1)

Employee Relations' **Keith Bryant**, Paducah Plant, was crossing the Ohio River where it joins the Mississippi, when he heard the news on his car radio. "Those dumb *!#!. . . we can whip them in two weeks," were his first thoughts.

Manley Fortune, Operations Division at Paducah, reacted first with the reflection, "Well, there goes my college career." Fortune was a

student at Michigan Technical University at the time.

A visit to Harlan, Ky., was on the schedule for **William J. Foley**, Y-12 Plant, to see his wife's parents. "I was bumfuzzled by the news, but it didn't really sink in until the next day when everybody was standing around at work talking about it. Then we heard Roosevelt's speech, and it all sunk in then."

safety scoreboard

Time worked without a lost-time accident through November 30:

Paducah	111 Days	1,402,000 Employee-Hours
ORGDP	238 Days	7,772,298 Employee-Hours
Y-12 Plant	232 Days	7,343,000 Employee-Hours
ORNL	36 Days	1,226,903 Employee-Hours

Corporate world of Union Carbide...

UNION CARBIDE CORPORATION has opened its ninth domestic coatings service plant to meet the needs of metallic and ceramic coatings customers in northern California. The 20,000 square-foot facility, operated by the Corporation's Linde Division, is in Hayward, south of Oakland, near the San Francisco Bay.

Linde's Coatings Service Department has a wide range of Ucar

coatings, applied by the detonation gun and plasma arc processes, which have resulted from more than 25 years of research, development, field testing and production application performance. The coatings comprise three basic groups—metals and metal alloys, carbides and oxides. Among the industrial uses of Carbide's coatings technology are aircraft, petroleum, steel, textile, paper, plastics and chemical processing.

Enjoying the leisure life. . .



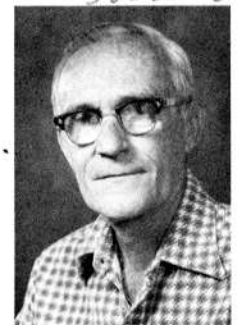
Homer D. Bozeman
Y-12 Materials Forming
27 years service



Robert S. Burdett
Chemical Services
Y-12
33 years service



Tommy W. Galloway
ORGDP Maintenance
33 years service



Samuel L. Flippin Jr.
ORNL Operations
33 years service



William C. Kerr
ORGDP Operations
34 years service



Keith C. Parsons
Y-12 A-Wing Shop
24 years service



Amos R. Shamblin
Research Services
Y-12
27 years service



Henderson P. Smith
Y-12 Tool Grinding
27 years service



Larry Studinger
Plant Manager's
ORGDP
33 years service



Craig Waldroup
Y-12 Alpha 5 Shop
26 years service



David C. Weaver
Research Services
Y-12
25 years service



Millard N. Wilkerson
Guard Department
Y-12
33 years service



WILNOWS BRAVES—A fancy dog act will liven up the Carbide Childrens' Christmas Parties set for December 22 at the Oak Ridge High School Auditorium. An application appears again below.

All-Carbide bowling tournament set

The Annual Carbide Mixed Bowling Tournament will be held on January 27, 28, February 3, 4, 10, 11, 1979, at the Tri-County Lanes, Oliver Springs. Carbide employees and spouses, retirees and spouses, and ORAU employees and spouses are eligible to participate. Entry forms

and tournament rules may be obtained from league secretaries or from the Recreation Office, Building 9711-5, Y-12 Plant. Entry forms will also be available at the Ark Lanes as well as the Tri-County Lanes. **DEADLINE** for entering the tournament is Monday, January 8, 1979. For further information call the Recreation Office, 3-5833.

Classic League. . .

The Has Beens have a two-point lead over the Eightballs in the Classic League. Weekly highs went to the Has Beens for a 1046/3023 series. Bob Rutherford of the Has Beens, rolled a 267/694 placing him second in the season's individual standings.

Tuesday League. . .

The Team lead the City Slickers in the K-25 Tuesday Men's League. Sam Babb received the high awards last week rolling a 224/254 game giving him a 565/655 series.



MAGIC ACT—Ken Griffin and Roberta will entertain the Christmas crowd at the parties for Carbide children set for December 22. The usual carol singing and a visit from Santa will also highlight the program.

Fire prevention winners announced

Employees at the Paducah Plant participated in a crossword puzzle contest during Fire Prevention Week. Harold R. Russell, Process Maintenance, took first prize of \$10.

Other employees winning were Marc E. Abell, James B. Ballard, Gary W. Batts, Gerald Box, Ed N. Cothron, Julian B. Felts, Freddie J. Gouch, George H. Hayden, H. Alan Hook, Joe M. Hyde, Willett C. Johnson, Gus E. Koskinski, Charles Kuykendall, Robert Langston, Leonard C. Litzsinger, Lonnie Reynolds, Thomas T. Mitchell, Carl E. Murray, Wayne O'Keefe, Max M. Ridge, James E. Shaughnessy, Don F. Spencer,

Paducah golf. . .

The last Paducah Plant scramble of the '78 season was held at Paxton Park Golf Course. Captain Bob Moss led players Forrest Edwards, Dutch Bryant and Bob White to a winning eight under par. Turning in the number two card was Gus Kosinski, Mike Flood, Norma Smith and Bob Langston with a six under par. Jerry Neale, Joanne Longton, Joe Blayney and W. E. McManus captured the number three spot with four under and fourth place honors went to Bob Holler, Jerry Smith, Manley Fortune and Bill McGee.

Charles Mm Taylor, Paul P. Teagues and Sherley M. Vance.



Application for Tickets

to



Christmas Parties

FOR CHILDREN OF OAK RIDGE UNION CARBIDE EMPLOYEES
(AGES 2-10 ONLY)

FRIDAY, DECEMBER 22

Plant _____
Employee's Name _____
Home Address _____
City _____ Zip _____
Plant Address _____ Mail Stop _____
Number of Tickets (Children) _____
Number of Tickets (Adults) _____

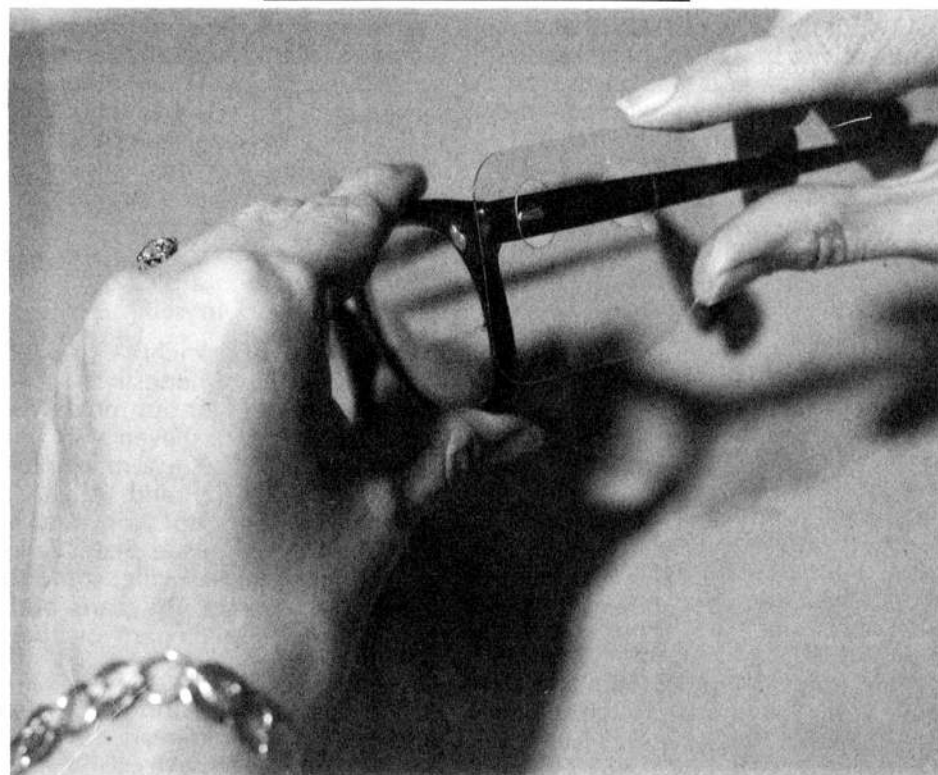
—CHECK TIME PREFERRED—

Friday, December 22
Only

10 A.M. _____ 1 P.M. _____ 3 P.M. _____ 5 P.M. _____

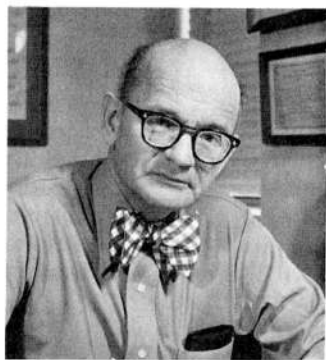
Please mark first and second choice (write in space "1" or "2") as only a limited number of tickets will be issued for each party. Preference will be given to early applicants and if tickets for first choice are exhausted, tickets for second choice will be issued.

Return this form, properly and completely filled out, to the Carbide Recreation Office, Building 9711-5, Mail Stop 1, Y-12 Plant. Please apply for tickets before December 15.



Side shields

In the last issue, the ND News encouraged employees to take advantage of protective side shields to be used with prescription lenses. In the demonstration photograph the shield was threaded incorrectly. Check photo above for correct threading.



Recombinant DNA and insulin

by T. A. Lincoln, M.D.

On July 7, 1976, fears about the safety of genetic engineering were so great that the City Council of Cambridge, Mass., voted 5-4 to place a three-month moratorium on recombinant DNA research at Harvard University. Only two years later, a group of biologists at the Joslin Research Laboratory and the Harvard Biological Laboratories announced they had been successful in inducing bacteria to produce proinsulin, a compound closely related to human insulin.

Recombinant DNA research involves separating fragments of the genetic DNA from live cells and inserting them into a microorganism for the purpose of creating a genetically different microorganism. Many scientists have expressed concern that such a procedure might create wholly new organisms which might be hazardous if released into the environment. As long as these new organisms got essential nutrients and an adequate environment, they might reproduce themselves forever. If the new microorganism eventually could cause cancer, it might create a dangerous biohazard with consequences that might not become apparent for many years.

Research involves separating genetic DNA and inserting fragments of it into microorganisms.

Concern about safety has been tempered somewhat by NIH (National Institutes of Health) guidelines which have established minimum safety requirements. Studies now are screened for potential hazards to human health. Exotic experiments designed to explore genetic mechanisms are probably the most hazardous and involve the most unknowns. More practical applications, such as the manufacture of insulin, are not thought to be hazardous and conceivably could save thousands of lives.

Insulin Injection U.S.P., the replacement hormone which is essential for survival for all insulin-dependent diabetics, is now extracted from beef and pork pancreas glands. The glands are removed at slaughterhouses, frozen and sent to pharmaceutical manufacturers who extract the insulin and purify it.

The present supply of insulin can be increased only if there is an increase in the supply of beef cattle and hogs. Synthesis of insulin does not seem likely now because of the extreme complexity of the insulin molecule. It is not expected that the demand for insulin will exceed the supply before 1995. However, some additional source of supply must be

developed, perfected and proven practical long before that date. There is genuine concern about the future availability of insulin from its present animal supply. If other sources of protein become available, and animals become too expensive to raise for food, the animal insulin supply could become inadequate before 1995.

The insulin-producing beta cells in the pancreas contain genes (the units of inheritance) grouped together in chains called chromosomes. The insulin gene is a double-coiled molecule of DNA (the so-called double-helix) which contains the basic instructions to the beta cell for assembling specific amino acids into protein precursors of insulin.

... practical applications such as the manufacturing of insulin are not considered dangerous and could save thousands of lives.

The secret is to break off the insulin gene from a chromosome in the animal beta cell and then stick it in the genetic material of a bacteria cell. This process is exceedingly complex because it involves transcribing the DNA genetic instructions for making insulin into molecules called messenger RNA (mRNA). The mRNA normally moves about in the cell and directs the assembly of the protein insulin. The mRNA won't "take" by itself, so it is used to synthesize a DNA copy which can be inserted into a bacterial gene pool.

E. coli bacteria are normally found in the intestinal tract and are easy to grow in huge culture vats. These bacteria contain small rings of DNA called plasmids which are easy to isolate and incubate with the DNA copy. Some of the rings open up, and the DNA gets inserted. Next, the plasmids are reinserted into the *E. coli* bacteria. By a careful selection process, one can eventually develop a strain of bacteria which manufactures insulin. At the present time, *E. coli* bacteria have only been made to manufacture rat proinsulin. Now experiments are underway to convert the proinsulin into insulin. The next step is to repeat the procedure with human beta cells.

For those concerned about safety, the *E. coli* bacteria being used are a weakened strain which cannot grow in animals.

Just a couple of years ago, Robert Sinsheimer, a biologist at the California Institute of Technology, said, "I believe science has not taken so large a step into the unknown since Rutherford began to split atoms." Already the practical application of this esoteric genetic research is reasonably close to a life-saving practical application.

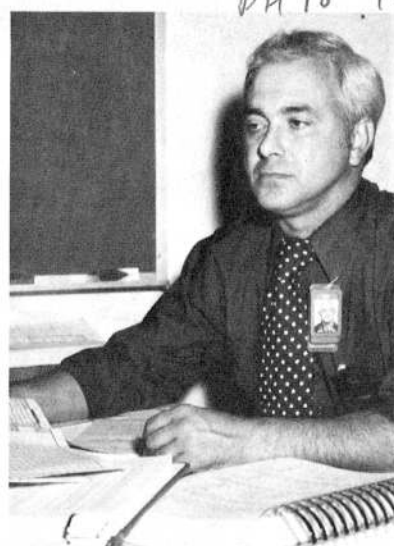
Six promotions at ORGDP



McMahan



Chandler



Woods



Wilcox



Kerley



Parker

Six promotions have been announced at ORGDP. R. Scott Chandler Jr. has been named a senior buyer in Purchasing and Robert V. McMahan, Chester Woods, H. E. "Pete" Parker, Walker S.O. Wilcox and Daniel G. Kerley have all been named planner-estimators in the Maintenance Division.

Chandler, a native of Welch, W. Va., is a graduate of East Tennessee State University with a BS degree in business management. He joined the Nuclear Division two years ago at ORGDP. Chandler and his wife, Karen, live at 4 Red Bud Drive, Harriman.

A Nuclear Division employee for eight years, McMahan has been at ORGDP for the past two years. The Coffee County native is married to the former Lucy Johnson. They live at Route 4, Harriman, with their two sons, John and James.

Woods, of Jacks Branch, W. Va., joined ORGDP two years ago after spending 11 years with the Chrysler-

Airtemp Division, Bowling Green, Ky. He and his wife, Sharon, live at Route 3, Oliver Springs. They have four children, John, Randy, Lenell and Westley.

Parker began his employment at ORGDP in 1976. The Hattiesburg, Miss., native and his wife, Jean, live at 32 Rolling Acres, Rockwood. They have one daughter, Michelle Leigh.

Wilcox joined ORGDP two years ago after a 21-year career in the United States Air Force. The Terre Haute, Ind., native is married to the former Bettye Gadson. The Wilcoxes, who live at 7919 Camberley Road, Powell, have two sons, Cleo and Reggie.

Kerley joined the Nuclear Division at Y-12 eight years ago as a machine operator. The Dayton, Ohio, native, who grew up in Harriman, transferred to ORGDP in 1974. Kerley and his wife, Joy, live at Route 4, Harriman. They have two daughters, Angela Marie and Lisa Loveday.

about people . . .

The Research and Development Section of the National Safety Council has received the William H. Cameron Award for the second consecutive year. The section is chaired by Harry C. Hoy, assistant manager of the ORNL Engineering Technology Division's Information Center for Energy Safety. The award was made at the Council's national conference last month in Chicago.

Instituted in honor of the Council's first president, the Cameron Award is made annually to the section with the most and best program activities.

Hoy is a co-founder of the Research and Development Section (one of 28 that make up the Council).



Harry Hoy, right, with National Safety Council President Vince Tofany.



ABOUT 10 MINUTES—It takes only about 10 minutes to donate a unit of blood. The Red Cross will stage a drive in Y-12 January 2 and 3 between the hours of 9 a.m. and 3 p.m. The site of the drive is the Conference Room, Building 9711-5.

Y-12 Divisional contacts

Engineering	Pam Moore, 3-2177
Support Engineering	Doris Schrader, 3-5208
Security, Plant Protection and Utilities	Joyce Key, 3-7125
Development	Sandra Ealy, 3-5415
Product Certification	Al Stephens, 3-7263
Production Planning and Scheduling	Bob Forseman, 3-7749
Materials and Services	Yvonda Runcel, 3-2244
Technical	Neil Schultz, 3-7216
Employee Relations and Staff	Robert T. Cantrell, 3-7382
Maintenance	Art Nine, 3-5074
Fabrication	Arlie Jenkins, 3-5912
Assembly	Dennis Nabors, 3-5971
Metal Preparation	Ted Higgins, 3-5643
Biology	Stan Cook, 3-7106
Fusion Energy	Bill Wing, 3-5458
Engineering Technology	Marcelle Ruskowski, 3-7744
Centrifuge Project	Sue Kelly, 3-3103
Rust Engineering	Personnel, 3-5670

Plant and Equipment promotes two



Shorter



Fox

James W. Fox, Jr., and Clarence G. Shorter of ORNL's Plant and Equipment Division have been promoted from trainee supervisors to maintenance supervisors.

Fox, previously a heating and plumbing pipefitter, joined the Nuclear Division in 1953. He and his wife, Robbie, have five children, Alva, Gail, James, Tim and Joni. They live at Route 2, Concord.

Shorter, also a pipefitter, joined Union Carbide in 1961. He and his wife, Pauline, have three sons, Larry, Ronald and Donald. The Shorters live at 7412 Palymar Drive, Knoxville.

Energy tip...

IN THE HOME—You may not need water as hot as your heater gives you. Check the temperature. Most water heaters are set at 140 degrees Fahrenheit, or higher. If you reduce the temperature 20 degrees—to 120 degrees—you cut your energy use by about 18 percent. Reducing the water heater temperature just 10 degrees could save six percent or more in water-heating energy.

Blood drive set in Y-12

Y-12ers have their turn for blood on January 2 and 3, as 1979 will feature the Red Cross's first visit to the plant. Prior visits to ORGDP and ORNL netted 981 units of blood.

William T. Mee, Radiation Safety, is heading the plant's drive, with co-chairmen Charles E. Robinson and Richard L. Truitt. Robinson is vice president of the Atomic Trades and Labor Council, and Truitt is president of the International Guard Union of America, Local 3. "We feel sure that Y-12 can top the other two plants," the chairmen agreed. "Despite the fact that we will all be returning from a long holiday weekend, there will be enough employees on the job to give blood."

The conference room at Building 9711-5 (Cafeteria) will be the site for the donations. Hours will be from 9 a.m. until 3 p.m. each day.

"By having a drive in Y-12, all Nuclear Division employees are covered for blood needs," an official at the Red Cross stated, "Paducah employees have been participating in the program for over a year, and this one makes it complete," he said. Blood coverage not only is given the employee but every member of his family is included. More important, this means that **everyone** is covered, not just those who give blood. Many people can not, and many choose not to, but their needs for blood are not diminished at all. Normal, off-the-street donors are particularly hard to come by during the holidays, however, the need for blood during the Christmas and New Year's holidays is greater than any other time of the year.

It is hoped that in the future there will be only one drive a year to each Oak Ridge facility. The Paducah Plant is on a monthly schedule. The Red

Cross established a Blood Center in the Paducah area recently to take care of the blood needs in Western Kentucky. Since it was established, the Center now covers additional counties in Kentucky, Missouri, Tennessee and Indiana.

Regular donors can assure those who have never given before that there is no pain and no adverse after effects.

Scheduling is highly important, and Mee has appointed representatives from all Y-12 divisions and the three ORNL divisions that exist in the Plant. The Gas Centrifuge Project Office and Rust Engineering have also appointed chairmen. Additional buses will be set during those two days to shuttle donors to and from the center.

It is estimated that a donation will require approximately an hour. The actual drawing of blood takes only about 10 minutes, but there are tests to be performed, and a medical history must be taken.

People on certain medication are not acceptable, as well as those who have had hepatitis. Pregnancy also disqualifies one from giving, as does recent surgery or complicated, recent dentistry. People suffering from cancer and other diseases may not give.

"When you consider those who can not give—all those over 65, and those under 17—plus those who are passed up for medical reasons, it only leaves about 50 percent of the population who can give. Then add to that the many who are not willing to give, and the percentage increases," the blood chairman said. "That is why all of us who can give should be there. We never know when we will be on the receiving end, and we surely want blood there if the need ever arises for us."

Corporate world of Union Carbide...

THE AWARDING OF A CONTRACT for construction of new headquarters for Union Carbide has gone to the William L. Crow Construction Company of New York. Foundation and concrete superstructure work is currently underway under contract with Corbetta Construction. The new

contract covers practically all remaining work on the building.

Terms of the contract were not disclosed, but an estimate of the cost of construction is \$99 million. Work is expected to begin on the site in Danbury, Conn. early next year, with a completion date targeted for mid-1981.



UNION CARBIDE CORPORATION

NUCLEAR DIVISION
P.O. BOX Y, OAK RIDGE, TENNESSEE 37830
ADDRESS CORRECTION REQUESTED

BULK RATE
U.S. Postage
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